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August 21, 2002

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AUG 2 1 2002

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Ms. Marlene Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554 FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: Ex Parte Presentation in IB Docket No. 02-10

Dear Ms. Dortch:

On August 20, 2002, representatives of Maritime Telecommunications Network, Inc. ("MTN") met with Belinda Nixon, Trey Hanbury, Paul Locke, and Lisa Cacciatore of the International Bureau in connection with the above-referenced proceeding. MTN was represented by David B. Kagan (Chief Executive Officer of MTN), Michael B. Milsom (Vice President, General Counsel & Secretary of Verestar, Inc. ("Verestar")), Robert J. Hanson (Vice President, Regulatory Affairs of Verestar), and by Raul R. Rodriguez, Stephen D. Baruch, and Philip A. Bonomo of the law firm Leventhal, Senter & Lerman P.L.L.C.

MTN described for the Bureau participants the particulars and extent of its established business of providing maritime customers with state-of-the-art global communications systems and solutions. In this regard, it provided copies of the presentation that is included in the first enclosure to this letter. MTN also informed the Bureau participants of the considerable progress that has been made on the technical aspects of the earth stations on vessels ("ESV") sharing issue in International Telecommunication Union studies over the last five years, and provided a copy of the draft United States proposal to the ITU's 2003 World Radiocommunication Conference ("WRC-03") that addresses the international aspects of the ESV issue. A copy of the draft U.S. proposal on ESVs to WRC-03 is included as the second attachment to this letter. The status of the Commission's rulemaking proceeding on ESV issues was also discussed, as were some details of the steps MTN has successfully taken over the last decade to avoid causing harmful or unacceptable interference to fixed service stations near the ports from which MTN-equipped vessels operate.

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Marlene Dortch August 21, 2002 Page -2-

The original and one copy of this letter are provided for inclusion in the above-referenced docket. Please address any questions concerning this matter to the undersigned.

Respectfully yours,

Stephen D. Baruch

Enclosures

cc (by e-mail): Belinda Nixon Trey Hanbury

Paul Locke

Lisa Cacciatore



Presented to the FCC August 20, 2002

Mission Statement

"We are dedicated to providing our maritime customers with state-of-the-art global communications solutions. We are committed to delivering reliable, effective, innovative and economical services that drive improved profitability for our company and our customers."

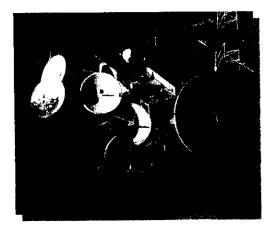
What We Do ...

- MTN is a full service turn-key provider offering:
 - Engineering/System Design
 - Equipment Leasing
 - Equipment Installation
 - Equipment Maintenance & Repair
 - Space Segment Management
 - Private Terrestrial Networks
 - PSTN Termination
 - Internet Cafes (Wired & Wireless)
 - Prepaid Calling Cards
 - Live Broadcasting Services (Audio & Video)
 - Full Newspaper delivery anywhere in the world



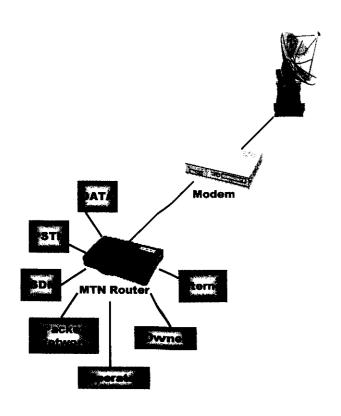
How We Do It

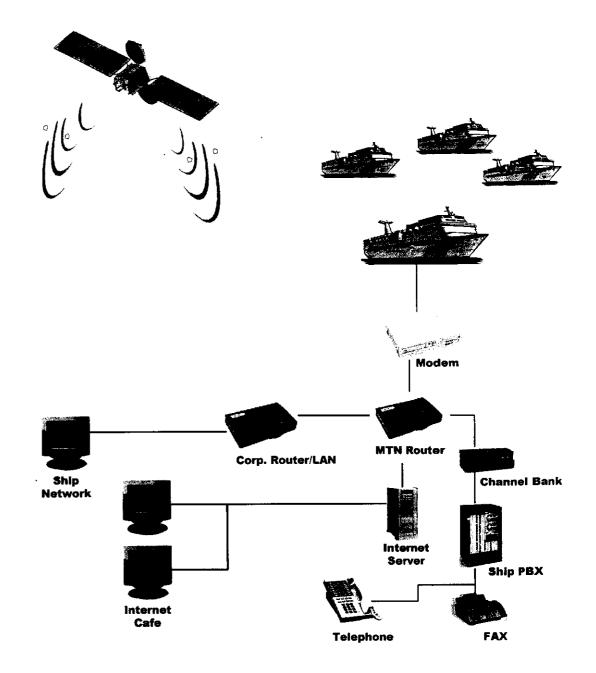
- 2.8 Meter Stabilized Antenna Platform on Ships
- Cisco Routers and Voice Gateways
- EF Data Modems
- Majority of Traffic is IP including VoIP
- Verestar SNAPs (Satellite Network Access Points) are used to land circuits network control through Holmdel, N.J. and Miramar, Fl.
- MTN utilizes commercial satellites (predominantly C-Band) to provide service (including GE, HGS, Intelsat, New Skies)



Holmdel, New Jersey







What is Our Value Added ...

- Our Customers use MTN Services for:
 - Immigration/Customs (Electronic Processing)
 - Inventory Management
 - General Shipboard Administration
 - Communications with HQ
 - Credit Card Verification/ ATM Processing
 - Extensive calling during safety/distress given the volume of calls/e-mails the MTN system can handle versus Inmarsat
 - Passenger and Crew Calling
 - Passenger and Crew Entertainment
 - Via Internet Cafes



Vital MTN Statistics

- Ships/Rigs Installed 100; 110 terminals
- Ships with Internet Cafes 67
- Number of Passengers ~150,000 (at any given time)
- Number of Crew Members ~66,000
- Average Cost of an Installation \$285,000
- Annual Revenues approximately \$32 million
- MTN Employees = 63 + 40 onboard managers
- Wholly owned subsidiary of Verestar/American Tower Corp.

United States of America

DRAFT PROPOSAL FOR THE WORK OF THE CONFERENCE

Agenda Item 1.26: to consider the provisions, under which earth stations located on board vessels, could operate in fixed satellite networks, taking into account the ITU-R studies in response to Resolution 82;

Background Information: Resolves 4 of Resolution 82 states that until WRC-03 takes further action, agreement between the administrations licensing Earth stations on board vessels (ESVs) and affected administrations should be reached on a bilateral or multilateral basis, in accordance with the guidelines in its Annexes 1 and 2. ESVs have been operating for over 10 years under national provisions (No. 4.4 of the Radio Regulations).

Several actions have taken place in ITU-R Study Groups to develop Recommendations or CPM text related to this agenda item. These include the development of:

- a. Working Party 4A Recommendation on the Characteristics of ESVs, including those to be used for sharing studies at 6 GHz and 14 GHz;
- b. a JWP 4-9S Draft New Recommendation identifying the 5 925-6 425 MHz and 14-14.5 GHz bands as suitable for ESV operations (Earth-to-space);
- c. several Draft New Recommendations in Joint Working Party 4-9S on methods to be used for achieving coordination with fixed stations when ESVs are in motion near the shore, including determination of a distance beyond which no agreement is necessary;
- d. draft CPM text which includes example footnotes to the Table of Frequency Allocations at 5 925-6 425 MHz and 14-14.5 GHz and two examples of a revised Resolution 82. The first example footnote would make compliance with the modified Resolution 82 mandatory, the second example would require "all practical steps" to comply with the Resolution. Similarly, the first of the two modified example Resolution 82s would make the contact procedures mandatory, the second example Resolution 82 does not.

As administrations may assign frequencies for ESVs pursuant to No. 4.4 of the Radio Regulations and ESV systems are mobile, it is appropriate to inform administrations operating systems in accordance with the Radio Regulations of the operation of ESVs and to allow them to take steps to prevent the possibility of harmful interference from ESV systems to their systems.

The proposed footnote and revisions of Resolution 82 provide for advance notice of the operation of ESV systems and provide operational procedures to use with administrations whose systems might be affected by such ESV use. The bilateral procedure in the proposed revision of Resolution 82 will allow administrations to reach agreement on the use of ESVs so that other systems operating in accordance with the Radio Regulations are protected.

Proposal:

USA/ /1 MOD

	5 925 – 6 700 MHz			
	Allocation to services			
Region 1	Region 2	Region 3		
5 925 - 6700	FIXED			
	FIXED-SATELLITE (Earth-to-space)			
	MOBILE			
	5.149 5.440 5.458 ADD <u>5.ESV</u>			

Reasons: Footnote 5.ESV is added to provide guidance to administrations wishing to allow the use of earth stations on board vessels in the bands 5 925-6 425 MHz and 14-14.5 GHz while providing protection to existing users of the bands.

USA/ /2 MOD

	14-14.5 GHz	
	Allocation to services	
Region 1	Region 2	Region 3
	FIXED-SATELLITE (Earth-to-space RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) exc Space research 5.505 ADD 5.ESV	
	FIXED-SATELLITE (Earth-to-space RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) exce satellite Space research 5.505 5.508 5.509 ADD 5.ESV	
14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) except aeronautical mobile- satellite Radionavigation-satellite ADD 5.ESV	14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 Mobile-satellite (Earth-to-space) except aeronautical mobile- satellite Radionavigation-satellite ADD 5.ESV	14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) except aeronautical mobile- satellite Radionavigation-satellite ADD 5.ESV

14.4-14.47	FIXED
	FIXED-SATELLITE (Earth-to-space) 5.484A 5.506
	MOBILE except aeronautical mobile
	Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite
	Space research (space-to-Earth)
_	ADD <u>5.ESV</u>
14.47-14.5	FIXED
	FIXED-SATELLITE (Earth-to-space) 5.484A 5.506
	MOBILE except aeronautical mobile
	Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite
	Radio astronomy
	5.149 ADD <u>5.ESV</u>

Reasons: Footnote 5.ESV is added to provide guidance to administrations wishing to allow the use of earth stations on board vessels in the bands 5 925-6 425 MHz and 14-14.5 GHz while providing protection to existing users of the bands.

USA/ /3 ADD

5.ESV Administrations operating earth-stations on board vessels in the bands 5 925-6 425 MHz and 14-14.5 GHz shall take all practicable steps to comply with Resolution 82 (WRC-03). Such use shall not cause harmful interference to, claim protection from, or otherwise impose constraints on the operation or development of other radio services operating in the band 5 925-6 425 MHz.

Reasons: To provide guidance to administrations wishing to allow the use of earth stations on board vessels in the bands 5 925-6 425 MHz and 14-14.5 GHz and provide protection to existing users of the bands.

USA/ /4 MOD

RESOLUTION 82 (WRC-20003)

Provisions relating to earth stations located on board vessels which operateing with fixed-satellite service networks in the bands 3.700.4.200.5.925-6.425 MHz and 5.925.6.425 MHz 14.0-14.5 GHz

The World Radiocommunication Conference (Istanbul, 2000 Geneva, 2003),

considering

- a) that there is a demand for global wideband satellite communication services on vessels;
- b) that the technology exists that enables earth stations on board vessels (ESVs) to use fixed-satellite service (FSS) networks operating in the 3 700 4 200 MHz and 5 925 6 425 MHz bands-that ESVs are currently operating through fixed-satellite service FSS networks in the bands 3 700-4 200 MHz, 5 925-6 425 MHz, 10.7-12.75 GHz, and 14.0-14.5 GHz;

- c) that ESVs have the potential to cause unacceptable interference to other services in the band 5 925-6 425 MHz and 14.0-14.5 GHz (Earth-to-space) bands;
- d) that ESVs operating in these bands require considerably less than the full bandwidth in the FSS allocation and only a portion of the visible geostationary arc;
- e) that there are a limited number of geostationary FSS systems that have global coverage;
- that the number of vessels equipped with ESVs may be such that the procedures would as to place a heavy processing burden on some administrations, especially those in developing countries;
- that in order to ensure the protection and future growth of other services, ESVs shall-should operate with requisite technical and operational constraints;
- h)g) that, based on appropriate assumptions, a minimum distance can be calculated has been identified beyond which an ESV will not have the potential to cause unacceptable interference to other services in their same band on the same frequency,

noting

- a) that ESVs <u>may be assigned frequencies to operate in FSS networks in the bands 3 700-4 200 MHz, 5 925-6 425 MHz, 10.7-12.75 GHz, and 14-14.5 GHz under pursuant to No. **4.4** of the Radio Regulations and shall not claim protection from, nor cause harmful interference to, other services having allocations in these bands;</u>
- b) that there is no need for new regulatory procedures that existing regulatory procedures provide for ESVs operating at specified fixed points,

resolves

- that any transmissions from ESVs, except those operating pursuant to No. 4.4 of the Radio Regulations, within the distances identified in resolves 2 of this resolution, be based upon the prior agreement of the concerned administrations; to invite ITU R to continue to study, as a matter of urgency, the regulatory, technical and operational constraints to be applied to ESV operations, having regard to the provisional guidelines for ESV use in Annex I and the provisional technical guidelines given in Annex 2 and, in particular, to determine the appropriate value for the minimum distance from ESV stations beyond which these stations are assumed not to have the potential to cause unacceptable interference to stations of other services of any administration and beyond which no coordination would be required;
- 2 to invite ITU R, as a matter of urgency:
- to develop Recommendations on methods for coordination between terrestrial services and ESVs;
- to study the feasibility of mitigation techniques, such as various frequency arrangements or dualband systems, as a way to avoid the need for detailed coordination of ESVs without constraining existing services;

to study, as a complement to the 3 700-4 200 MHz and 5 925-6 425 MHz bands, the use of other FSS allocations for ESVs transmitting in the 6 GHz and 14 GHz bands;

that the minimum distances from ESV stations, beyond which these stations are assumed not to have the potential to cause unacceptable interference to stations of other services of any administration and beyond which no agreement is necessary, are 300 km for the 5925-6425 MHz band and 125 km for the 14,0-14.5 GHz band;

- 3 to invite WRC 03 to assess, in the light of these studies, the provisions under which ESVs could operate in FSS networks in the bands 3 700 4 200 MHz and 5 925 6 425 MHz, without causing unacceptable interference to radiocommunication services operating in accordance with the Radio Regulations;
- 4 that, until a decision is adopted for ESVs by WRC 03, agreement between the administrations licensing ESVs and affected administrations should be reached on a bilateral or multilateral basis, in accordance with the guidelines in Annexes 1 and 2;
- 5 that, until a decision is adopted for ESVs by WRC 03, administrations licensing ESVs that enter into bilateral or multilateral agreements under resolves 4 above should ensure that, as part of the licensing process, ESVs operate in compliance with such agreements, taking into consideration the interests of concerned neighbouring countries;
- 3 that operation of ESVs follow the procedures in Annex 1 and include the typical characteristics listed in Annex 2.

encourages concerned administrations

to cooperate with administrations which that license ESVs while and seeking agreement under resolves 4, the provisions of Annex 1,

encourages ESV licensing administrations

to consider registering their ESV frequency assignments in the Master International Frequency Register, for information purposes only,

further recognizing

that the reference to the distances in resolves 2 is solely for the purpose of facilitating avoidance of radio interference and does not confer any territorial rights on Administrations

urges all administrations

to participate actively in the above mentioned studies by submitting contributions,

instructs the Secretary-General

to bring this resolution to the attention of the Secretary-General of the International Maritime Organization and to invite IMO to participate in the work on this issue.

USA/ /5 MOD

ANNEX 1 TO RESOLUTION 82 (WRC-20003)

Provisional guidelines Operational procedures for ESV use

1 — The administration that issues the licence for the use of ESVs in these bands (licensing administration) shall ensure that such stations do not cause unacceptable interference to the services of other concerned administrations.
2 Operators of ESVs shall comply with the technical guidelines listed in Annex 2 and/or those agreed by the licensing and concerned administrations.
3 ESVs shall not claim protection from transmissions of other services operating in accordance with the Radio Regulations.
4 Any transmissions from ESVs within an agreed distance, as identified in resolves 1 of this Resolution, shall be based upon the prior agreement of the concerned administration.
5 Administrations which issue ESV licences shall ensure that ESV operators endeavour to provide the necessary assistance to the concerned administrations in order to facilitate the agreement.
6 — Administrations, in determining the distance referred to in § 4 above, are encouraged to exclude those parts of their territory, such as remote small islands, where other services in the band 5 925 6 425 MHz are neither operating nor planned.
7 If an administration changes its actual or planned deployment of stations in other services, it may require revision of the agreement with the ESV licensing administration(s).
8 The ESV system should include means of identification and automatic mechanisms to terminate transmissions whenever the station operates outside its authorized geographic (see § 4 above) or operational limits.
9.——ESVs should be equipped so as to enable the licensing administration under the provisions of Article 18 to verify earth station performance and to terminate ESV transmissions immediately upon request by an administration whose services may be affected.
10 — When ESVs operating beyond the territorial waters but within a specified distance (as referred to in § 4 above) fail to comply with the terms required by the concerned administration pursuant to § 2 and 4, then that administration may:
request the ESV to comply with such terms or cease operation immediately; or
request the licensing administration to require such compliance or immediate cessation of the operation.
H — Any licensing authority that licenses ESVs should maintain at all times a point of contact that may be contacted by a concerned administration.
A. Initiation of Contact

When ships equipped with ESVs intend to operate in the band 5 925-6 425 MHz within 300 kilometers and in the band 14-14.5 GHz within 125 km of the territory of other administrations having co-frequency terrestrial stations, authorities of the ESV licensing administration should contact, in advance of operating within those distances, the responsible authorities of the concerned administration in advance of operating within those distances to obtain agreements that will establish the technical bases for avoiding unacceptable interference to the terrestrial facilities of the concerned administration or administrations.

B. Recommended Actions of Concerned Administrations

Each Administration having terrestrial stations in these bands should have a point of contact for authorities of the ESV licensing Administration to initiate discussions. Concerned Administrations that have terrestrial facilities that could be affected by ships operating earth stations on board ships should do the following when contacted by the ESV licensing Administration or the ESV station operator aboard such a ship.

- 1) Determine if it has terrestrial systems in the same frequency band as the ESV.
- 2) Request the ESV licensing Administration to identify the range of its frequency operation.
- 3) Identify frequencies for ESV use where no agreement would be required.
- 4) Request the ESV licensing Administration to enter a frequency use arrangement.

C. ESV Operating Agreements

The authorities of the concerned Administration are encouraged to enter into an agreement with the authorities of the ESV licensing Administration that describes the conditions for operation of the ESV when operating near the coast or in ports of the concerned Administration. These agreements should be concluded prior to the operation of the ESV stations near the coast or in the ports of the concerned Administration. The agreement should consider using the 4/6 GHz band outside certain limits and not using the 4/6 GHz band inside certain limits in countries that have fixed service stations in the 6 GHz band and should include the possibility of switching to 14 GHz. The operating agreement may be revised at any time at the discretion of the concerned Administration, particularly whenever new terrestrial facilities are authorized that could potentially receive unacceptable interference.

D. Frequency Use Arrangements

National practices, as well as applicable recommendations of the ITU-R, may be used in reaching bilateral frequency usage arrangements. Typical characteristics for ESV operations are contained in Annex 2.

E. Protection from Transmissions of Other Services

ESVs are not protected from the transmissions of other services operating in the 4 GHz and 11/12 GHz bands.

F. ESV Point of Contact

Each ESV operator should provide a point of contact to the Administration and frequency coordinator of the country with which agreements have been reached for the purpose of reporting unacceptable interference. In the case that such interference has been identified to the satisfaction of the concerned Administration, at the direction of the concerned Administration, ESV operators must have the ability to immediately terminate the transmission from the responsible ESV station.

G. Avoidance of Unacceptable Interference

The ESV licensing Administration shall ensure that such stations do not cause unacceptable interference to the services of other concerned Administrations. In the event that unacceptable interference does occur, the ESV operator must eliminate the source of any interference from its station immediately upon being advised of such interference. Additionally, the ESV operator must immediately terminate transmissions at the request of either the concerned Administration or the ESV licensing Administration if either Administration determines that the ESV is not being operated in compliance with the operating agreement.

Additionally, ESVs stations should have the following operational capabilities:

- 1. The ESV system should include a means of identification and location, and automatic mechanisms to terminate transmissions whenever the station operates outside its authorized geographic area (see resolves 2 or operational limits).
- 2. The ESV system should be equipped so as to enable the ESV licensing Administration under the provisions of Article 18 to verify earth station performance and to terminate ESV transmissions immediately upon request by a concerned Administration whose services may be affected.

Reasons: Provide protection to existing radio services, provide administrations operating systems in existing radio services with guidance on how to reach agreement with operators of ESV systems and provide administrations with the means to operate ESVs in the bands identified.

USA/ /6 MOD

ANNEX 2 TO RESOLUTION 82 (WRC-20003)

Provisional technical guidelines applicable to ESVs operating in the bands 3 700-4 200 MHz and 5 925-6 425 MHz

This annex contains typical characteristics of ESV earth stations on board vessels for the 5 925-6 425 MHz and 14-14.5 GHz bands.

5 925-6 425 MHz

Minimum diameter of ESV antenna:2.4 mMaximum half-power beamwidth of ESV antenna:1.5°Minimum elevation angle of ESV antenna:10°

Maximum necessary bandwidth per vessel: 2.346 MHz

Maximum necessary bandwidth in a single operating area:

Maximum ESV transmitter power spectral density at the input to the

antenna:

Tracking accuracy of ESV antenna:

17dB(W/MHz)

36 MHz (see Note)

0.20

14-14.5 GHz

Minimum diameter of ESV antenna:1.2 mMaximum necessary bandwidth per vessel:2.346 MHzMaximum ESV transmitter power spectral density at the input to the12.5 dB(W/MHz)

NOTE: The actual bandwidth required in an operating area will depend on the number of ESVs that would be present simultaneously in that area, and in many areas the required bandwidth will be less than 36 MHz. In addition, because ESVs are frequency agile, the necessary bandwidth per vessel (2.346 MHz) can be generally identified anywhere within the 4/6 GHz bands and does not have to be contiguous with bandwidth of other ESVs.

Reasons: This annex is consistent with the ITU-R Study Group 4 Recommendation on ESV characteristics.